HENKEL CONSUMER ADHESIVES 08/08/00

AVON, OH 44011

TELEPHONE: (440) 937-7000

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CAN500 QT N/REB 5 GR

01-21309

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CAN500 OT N/REB 5 GR BO/CG

Item No.: 01-21309

Product Type: Cyanoacrylate ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. 양

90-95 Ethyl cyanoacrylate 7085-85-0 9011-14-7 5-10 Poly (methyl methacrylate) 123-31-9 HYDROQUINONE 0.1-1

Ingredients which have exposure limits

OSHA Exposure Limits (TWA) ACGIH OTHER

Ingredients (PEL) (TLV)

Ethyl cyanoacrylate 0.2 ppm TWA None None

HYDROQUINONE 2 mg/m3 TWA 2 mg/m3 TWA 2 mg/m3 TWA

4 mg/m3 STEL

Exposure Limits (STEL) ACGIH OSHA Ingredients (TLV) (PEL)

3. HAZARDS IDENTIFICATION

Skin contact may cause burns. Toxicity:

Bonds skin rapidly and strongly.

Skin and eye irritant.

Estimated oral LD50 more than 5000mg/kg. Estimated dermal LD 50 more than 2000 mg/kg.

Primary Routes of Entry:

Signs and Symptoms

None known

of Exposure: Vapor is irritating to eyes and mucous membranes

above TLV. Prolonged and repeated overexposure to

vapors may produce symptoms of non-allergic

asthma in sensitive individuals.

Existing Conditions

Aggravated by Exposure: None known

Literature Referenced Carcinogen Ingredients Target Organ and Other Health Effects NTP IARC OSHA

Ethyl cyanoacrylate ALG IRR RES NO NO NO Poly (methyl methacrylate) NO N/A NO IRR

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3. HAZARDS IDENTIFICATION (continued)

AC3 BLO BNM CNS EYE IMM IRR LIV NO N/A NO HYDROQUINONE

MUT SKI THY

Abbreviations

N/A Not Applicable AC3 ACGIH animal carcinogen.

ALG Allergen BLO Blood

BNM Bone Marrow CNS Central nervous system

EYE Eyes IMM Immune system

LIV Liver IRR Irritant

MUT Mutagen RES Respiratory THY Thyroid SKI Skin

4. FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for

emergency procedures.

Remove to fresh air. If symptoms persist, Inhalation:

obtain medical attention.

Soak in warm water. See supplemental page for emergency procedures. Skin Contact:

Eye Contact: Flush with water. See supplemental page for

emergency procedures.

5. FIRE FIGHTING MEASURES

150 - 200øF Method: Tag Closed Cup Flash Point:

Recommended

Extinguishing Agents: Carbon dioxide, foam, dry chemical

Extingulsning

Special Firefighting

Not available

Hazardous Products formed

by Fire or Thermal Decomp Irritating organic vapors

Unusual Fire or

Explosion Hazards: None

Explosive Limits:

(% by volume in air) Lower Not available (% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak: Flood with water to polymerize. Soak up with an inert absorbent.

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7. HANDLING AND STORAGE

Safe Storage: Store at or below 75øF

(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid contact with skin and eyes. Avoid breathing

vapor.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Nitrile or polyethylene gloves and aprons.

Do not use cotton.

See supplemental page for additional information. Ventilation: Positive down-draft exhaust ventilation should be

provided to maintain vapor concentration below TLV

Respiratory Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Odor:

Boiling Point:

PH:

Does not apply

Solubility in Water: Polymerized by water

Specific Gravity 1.05

Volatile Organic Compound

(EPA Method 24) Not available
Vapor Pressure: Less than 0.2 mm
Vapor Density: Approximately 3

Evaporation Rate

(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Polymerized by contact with water, alcohols,

amines, alkalies.

Conditions to Avoid: Not available

Hazardous Decomposition

Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

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12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: Polymerize as above. Incinerate following EPA

and local regulations.

EPA Hazardous Waste

Number NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted (Not more than 450 liters);

Combustible liquids, n.o.s. (Cyanoacrylate ester)

(More than 450 liters)

Hazard Class or

Division: Unrestricted (Not more than 450 liters)

Combustible liquid (More than 450 liters)

Identification Number: None (Not more than 450 liters);

NA 1993 (More than 450 liters)

Marine Pollutant: None

ТАТА

Proper Shipping Name: Unrestricted (Not more than one pint);

Aviation regulated liquid, n.o.s., (Cyanoacrylate

Ester) (More than one pint)

Class or Division: Unrestricted (Not more than one pint);

Class 9 (More than one pint)

UN or ID Number: None (Not more than one pint)

UN 3334 (More than one pint)

15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are known

to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
Fire Hazard: 2
Reactivity Hazard: 1

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2
Flammability Hazard: 2

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16. OTHER INFORMATION (continued)

Reactivity Hazards: 1
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared by:

Safety, Health and Regulatory Affairs - North America, Company:

Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(24hr.) Phone: (860) 571-5100

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INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION

First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

EYELID TO EYELID OR EYEBALL ADHESION

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips HENKEL CONSUMER ADHESIVES 08/08/00

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with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY

It should never be necessary to use such a drastic method to separate accidentally bonded skin.